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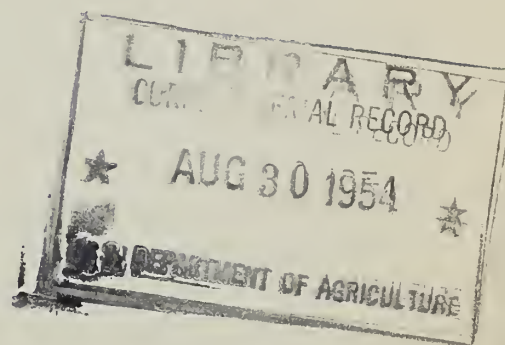
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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
DAIRY DIVISION

INSERTS
FOR
SUMMARIES
OF
FLUID MILK MARKETING ORDERS



Revised to June 30, 1954

and

Federal Register Citations

The attached are inserts to be substituted for the corresponding pages in the Summaries of Fluid Milk Marketing Orders, April 1, 1948, and Federal Register Citations. These inserts revise the Federal orders as effective on June 30, 1954. The last insert was issued on April 15, 1954.

Missouri, and $\frac{1}{2}$ cent per 10 miles thereafter.

Producer Price - The same differentials as for Class I apply to all milk delivered by producers.

Method of Accounting for Milk:

Weights of skim milk and butterfat are accounted for separately. Upon completion of classification the butterfat test of each class is determined.

Type of Pool:

Market-wide, monthly pool without base rating or new producer clause.

Forty cents per hundredweight is deducted from the blended price during April, and July. $\frac{1}{3}$ third of these deductions is returned to producers during each of the months of October, November, and December, each producer sharing on the basis of his own production during those months.

Interhandler Transfers:

Skim milk or butterfat transferred to a producer-handler or to the pool plant of another handler is classified as Class I unless, in the latter case, Class II utilization is indicated in writing by both handlers. If either or both handlers have "other source" milk, the transfer must be classified to give producer milk the highest valued classification.

Outside Purchases:

Skim milk and butterfat received by a handler from sources other than producers is deducted from his Class II utilization of producer milk.

Outside Sales:

Milk sold outside the marketing area is priced the same as milk sold in the marketing area. Skim milk or butterfat transferred to a nonpool plant is Class I unless (1) shipped more than 150 miles as cream to another Federal order market or as "Grade C cream for manufacturing only" or (2) shipped as milk, skim milk, or cream less than 150 miles, in which case the transferred product is assigned to the highest class use of the receiving non-handler after subtracting the receipts by such non-handler direct from dairy farmers.

Producer-handler:

Any person who produces milk and operates an approved plant, but who receives no milk from producers is exempt from regulatory provisions. Reports may be required by the market administrator.

Class II - The sum of a butterfat component and a skim milk value.

The butterfat component is related to the price per pound of New York 92-score butter. When such price is less than 21.5 cents, the component price is \$1.25 per hundredweight for March through July, and \$1.50 per hundredweight for August through February. For each 3.5 cents increase in the butter price, the component is increased by 15 cents.

The skim milk value is computed as follows:

- (ii) Multiply by 7.5 the average price for hot roller process nonfat dry milk solids "other brands, human consumption, carlots, bags or barrels" published in the "Producers' Price Current" and subtract 48 cents.

Class III - The sum of Para. (1) and (2) below minus 80 cents, minus additional 10 cents (for May and June 1954.)

(1) Average daily wholesale selling prices of New York 92-score butter, plus two cents, (plus five cents when the utilization adjustment percentage for any month August through February is 92 or larger,) times 1.22, times 3.5.

(2) Multiply by 7.8 the weighted average (weighted as follows: 70 for roller and 30 for spray) of prices per pound, nonfat dry milk solids for human consumption, carlots, f.o.b. manufacturing plants, Chicago area.

Butter-cheese adjustment - Milk made into butter or Cheddar, American Cheddar, Colby, washed curd, or part skimmed Cheddar cheese, and plant loss associated with such products is priced at 4 cents per pound of butterfat in such milk less than the Class III price, with provision (under specified conditions) for deducting less than 4 cents in the case of milk for butter, and for deducting either more or less than 4 cents in the case of milk for cheese.

FEDERAL MILK ORDER NO. 72

Tri-State (West Virginia, Ohio and Kentucky)

Marketing Area:Kentucky: Boyd CountyOhio: Athens and Scioto Counties and nineteen specified townships in Gallia, Laurence, Pike and Washington Counties. Also, Jackson County except Bloomfield and Jackson Townships.West Virginia: Ten districts in Mason, Wayne and Wood Counties. Also, Cabell County, except McComas and Union Districts.Handler:

- (a) Person, including a cooperative association, who operates a fluid milk plant.
- (b) A cooperative association which during April, May, June or July diverts milk from a fluid milk plant to a non-fluid milk plant.

Fluid Milk Plant:

- (1) A plant from which a route is operated wholly or partially within the marketing area.
- (2) A plant from which, in the delivery period, 25,000 pounds or more milk, or an amount of skim and butterfat from which 25,000 pounds or more Class I milk is derived, is delivered in fluid form to a plant described in part (1) above.

Producer:

A person, other than a producer-handler, who produces milk received:

- (1) At a fluid milk plant
- (2) At a non-fluid plant by diversion during April through July from a fluid milk plant, provided such person holds a dairy farm inspection permit or equivalent certification required by health authority in community for which the milk is produced.

Classification:Class I - All skim milk and butterfat:

- (1) Disposed of as fluid milk, skim milk (except in Class II or III), flavored milk, flavored milk drinks,
- (2) Not accounted for in Class II or III.

Class II - All skim milk and butterfat disposed of as cream, cream and milk mixtures (not less than 6 percent butterfat) and buttermilk (except in Class III).

Class III - All skim milk and butterfat:

- (1) Made into milk products not in Class I or Class II,
- (2) Dumped or disposed of for livestock feeding as skim milk or buttermilk.
- (3) Disposed of as bulk skim milk to manufacturers of candy, soup, or bakery products who do not dispose of milk in fluid form.
- (4) Plant shrinkage not over 2 percent of producer milk and actual plant shrinkage of "other source" milk.

Class Prices (3.5 percent butterfat):

A "basic formula" price is used for Class I, Class II, and Class III prices. The "basic formula" price is the highest of:

- (1) Average of prices paid for 3.5 percent milk at 15 specified plants (see list used for "basic formula" price in Chicago order).
- (2) 92-score butter at Chicago, multiplied by 6,
PLUS
2.4 times the average price per pound of "Twins" at Plymouth, Wisconsin (or "Cheddars"), divided by 7, times 1.3, times 3.5,
- (3) Price per pound of Chicago 92-score butter, minus 3 cents, times 1.2, times 3.5, plus an amount computed as follows: Price per pound of nonfat dry milk solids (spray and roller process, human consumption, carlots, f.o.b. Chicago area plants), minus 5.5 cents, times 8.5, times .965.

Class I - "Basic formula" price plus the following amounts:

(1) _____	:	April	:	Feb.,	:	Sept.
	:	thru	:	March,	:	thru
_____	:	July	:	and Aug.	:	Jan.
	:		:		:	
Huntington District Plants	:	\$1.10	:	\$1.35	:	\$1.80
Gallipolis District Plants	:	1.00	:	1.25	:	1.70
Scioto District Plants	:	.90	:	1.15	:	1.60
Athens District Plants	:	.80	:	1.05	:	1.50

- (2) Add or subtract a "supply-demand adjustment" computed from a "current utilization percentage", i.e., the percentage which Class I sales (less interhandler transfers) are of producer receipts during the first and second preceding months. From this current utilization percentage there is subtracted the "standard utilization percentage" as specified in the order.

The resulting "net utilization percentage" is converted to a specific price adjustment in accordance with a tabulated schedule of premiums and discounts which average 3 cents per net utilization percent. The amount of the supply-demand adjustment for each delivery period prior to August 1954 shall not be more or less than 28 cents.

Class II - Class I price minus 30 cents.

Class III - "Basic formula" price. For the period May through July 1954 deduct 25 cents for Class III other than that used to produce ice cream, ice cream mix and cottage cheese.

Butterfat Differentials:

Class I - Price per pound of Chicago 92-score butter, times 1.2, divided by 10, plus one-half cent.

Class II - Same as Class I.

Class III - The average price per hundred weight Chicago 92-score butter minus \$3.00, times 1.2 minus price per hundred weight of nonfat dry milk solids (human consumption, spray and roller process, carlots, f.o.b. Chicago Area), minus 5.5 cents. Divide result by 1,000.

Producer - Price per pound of Chicago 92-score butter, times 1.2, divided by 10.

Location Differentials:

None.

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
 43. *Chlorophyll aq* (Chl *aq*)
 44. *Chlorophyll ar* (Chl *ar*)
 45. *Chlorophyll as* (Chl *as*)
 46. *Chlorophyll at* (Chl *at*)
 47. *Chlorophyll au* (Chl *au*)
 48. *Chlorophyll av* (Chl *av*)
 49. *Chlorophyll aw* (Chl *aw*)
 50. *Chlorophyll ax* (Chl *ax*)
 51. *Chlorophyll ay* (Chl *ay*)
 52. *Chlorophyll az* (Chl *az*)
 53. *Chlorophyll aza* (Chl *aza*)
 54. *Chlorophyll abz* (Chl *abz*)
 55. *Chlorophyll acz* (Chl *acz*)
 56. *Chlorophyll adz* (Chl *adz*)
 57. *Chlorophyll aez* (Chl *aez*)
 58. *Chlorophyll afz* (Chl *afz*)
 59. *Chlorophyll agz* (Chl *agz*)
 60. *Chlorophyll ahz* (Chl *ahz*)
 61. *Chlorophyll aiz* (Chl *aiz*)
 62. *Chlorophyll ajz* (Chl *ajz*)
 63. *Chlorophyll akz* (Chl *akz*)
 64. *Chlorophyll alz* (Chl *alz*)
 65. *Chlorophyll amz* (Chl *amz*)
 66. *Chlorophyll anz* (Chl *anz*)
 67. *Chlorophyll aoz* (Chl *aoz*)
 68. *Chlorophyll apz* (Chl *apz*)
 69. *Chlorophyll aqz* (Chl *aqz*)
 70. *Chlorophyll arz* (Chl *arz*)
 71. *Chlorophyll asz* (Chl *asz*)
 72. *Chlorophyll atz* (Chl *atz*)
 73. *Chlorophyll auz* (Chl *auz*)
 74. *Chlorophyll avz* (Chl *avz*)
 75. *Chlorophyll awz* (Chl *awz*)
 76. *Chlorophyll axz* (Chl *axz*)
 77. *Chlorophyll ayz* (Chl *ayz*)
 78. *Chlorophyll ayz* (Chl *ayz*)
 79. *Chlorophyll azz* (Chl *azz*)
 80. *Chlorophyll azaa* (Chl *aza*)
 81. *Chlorophyll abz* (Chl *abz*)
 82. *Chlorophyll acz* (Chl *acz*)
 83. *Chlorophyll adz* (Chl *adz*)
 84. *Chlorophyll aez* (Chl *aez*)
 85. *Chlorophyll afz* (Chl *afz*)
 86. *Chlorophyll agz* (Chl *agz*)
 87. *Chlorophyll ahz* (Chl *ahz*)
 88. *Chlorophyll aiz* (Chl *aiz*)
 89. *Chlorophyll ajz* (Chl *ajz*)
 90. *Chlorophyll akz* (Chl *akz*)
 91. *Chlorophyll alz* (Chl *alz*)
 92. *Chlorophyll amz* (Chl *amz*)
 93. *Chlorophyll anz* (Chl *anz*)
 94. *Chlorophyll aoz* (Chl *aoz*)
 95. *Chlorophyll apz* (Chl *apz*)
 96. *Chlorophyll aqz* (Chl *aqz*)
 97. *Chlorophyll arz* (Chl *arz*)
 98. *Chlorophyll asz* (Chl *asz*)
 99. *Chlorophyll atz* (Chl *atz*)
 100. *Chlorophyll auz* (Chl *auz*)
 101. *Chlorophyll avz* (Chl *avz*)
 102. *Chlorophyll awz* (Chl *awz*)
 103. *Chlorophyll axz* (Chl *axz*)
 104. *Chlorophyll ayz* (Chl *ayz*)
 105. *Chlorophyll ayz* (Chl *ayz*)
 106. *Chlorophyll azz* (Chl *azz*)
 107. *Chlorophyll azaa* (Chl *aza*)
 108. *Chlorophyll abz* (Chl *abz*)
 109. *Chlorophyll acz* (Chl *acz*)
 110. *Chlorophyll adz* (Chl *adz*)
 111. *Chlorophyll aez* (Chl *aez*)
 112. *Chlorophyll afz* (Chl *afz*)
 113. *Chlorophyll agz* (Chl *agz*)
 114. *Chlorophyll ahz* (Chl *ahz*)
 115. *Chlorophyll aiz* (Chl *aiz*)
 116. *Chlorophyll ajz* (Chl *ajz*)
 117. *Chlorophyll akz* (Chl *akz*)
 118. *Chlorophyll alz* (Chl *alz*)
 119. *Chlorophyll amz* (Chl *amz*)
 120. *Chlorophyll anz* (Chl *anz*)
 121. *Chlorophyll aoz* (Chl *aoz*)
 122. *Chlorophyll apz* (Chl *apz*)
 123. *Chlorophyll aqz* (Chl *aqz*)
 124. *Chlorophyll arz* (Chl *arz*)
 125. *Chlorophyll asz* (Chl *asz*)
 126. *Chlorophyll atz* (Chl *atz*)
 127. *Chlorophyll auz* (Chl *auz*)
 128. *Chlorophyll avz* (Chl *avz*)
 129. *Chlorophyll awz* (Chl *awz*)
 130. *Chlorophyll axz* (Chl *axz*)
 131. *Chlorophyll ayz* (Chl *ayz*)
 132. *Chlorophyll ayz* (Chl *ayz*)
 133.

Method of Accounting for Milk:

Weight of skim milk and butterfat computed separately as used in each class.

Type of Pool:

Individual handler, monthly pool, without base-rating plan or new producer clause.

Interhandler Transfers:

Skim milk or butterfat disposed of by a handler to another handler in the form of fluid milk or other Class I products is Class I, and if disposed of in the form of fluid cream or other Class II products, is Class II. If a written statement signed by both handlers is submitted to the market administrator, the milk or cream is allocated in accordance with its actual utilization (providing the receiving handler is not a producer-handler), subject to verification.

Outside Purchases:

"Other Source" milk is deducted in series beginning with the lowest price class.

Outside Sales:

Skim milk or butterfat disposed of in the form of fluid milk or other Class I products by a handler to a plant other than a "fluid milk plant" is assigned as Class I and if so disposed of in the form of fluid cream or other Class II products, it is assigned as Class II. If a written statement signed by both buyer and seller is submitted to the market administrator, the milk or cream is classified in accordance with its actual utilization, subject to verification.

Milk sold outside the marketing area is priced the same as milk sold in the marketing area.

Producer-handlers:

Any person who produces milk and operates a route extending into the marketing area, but receives no milk from dairy farmers is exempt from the regulatory provisions of the order. Reports may be required by the market administrator.

Expense of Administration:

Handlers pay administrative costs not to exceed 4 cents per hundredweight.

the following table, the first column gives the number of cases, the second column the number of deaths, and the third column the percentage of deaths.

The following table gives the number of cases, the number of deaths, and the percentage of deaths, for each of the years from 1900 to 1910.

Year	Number of cases	Number of deaths	Percentage of deaths
1900	1,234	56	4.5
1901	1,345	67	5.0
1902	1,456	78	5.4
1903	1,567	89	5.7
1904	1,678	90	5.4
1905	1,789	101	5.6
1906	1,890	112	5.9
1907	1,901	123	6.5
1908	2,012	134	6.7
1909	2,123	145	6.8
1910	2,234	156	7.0

The following table gives the number of cases, the number of deaths, and the percentage of deaths, for each of the years from 1911 to 1920.

Year	Number of cases	Number of deaths	Percentage of deaths
1911	2,345	167	7.1
1912	2,456	178	7.3
1913	2,567	189	7.4
1914	2,678	190	7.1
1915	2,789	201	7.2
1916	2,890	212	7.3
1917	2,901	223	7.7
1918	3,012	234	7.8
1919	3,123	245	7.9
1920	3,234	256	7.9

The following table gives the number of cases, the number of deaths, and the percentage of deaths, for each of the years from 1921 to 1930.

Year	Number of cases	Number of deaths	Percentage of deaths
1921	3,345	267	8.0
1922	3,456	278	8.0
1923	3,567	289	8.1
1924	3,678	290	7.9
1925	3,789	301	8.0
1926	3,890	312	8.0
1927	3,901	323	8.3
1928	4,012	334	8.3
1929	4,123	345	8.4
1930	4,234	356	8.4

The following table gives the number of cases, the number of deaths, and the percentage of deaths, for each of the years from 1931 to 1940.

Special Producer Provisions:

A marketing service charge not to exceed 6 cents is deducted by handlers:

- (1) for all milk received from producers at a plant not operated by a cooperative association.
- (2) on all milk received at a cooperative association plant from nonmembers,
- (3) on all milk received at a cooperative association plant from members who do not receive marketing services from such association.

Deductions, as authorized by members, are turned over to cooperative associations.

1861

1862

1863

1864

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1871

(1)

(2)

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(4)

- (b) 92-score butter at Chicago, times 6,
PLUS

2.4 times the price per pound of "Twins" ("Cheddars" if "Twins" not quoted) at Plymouth, Wisconsin, divide the sum by 7, add 30 percent thereof, and multiply by 4, or

- (c) 92-score butter at Chicago, times 4, times 1.2
PLUS

3-3/4 cents for each $\frac{1}{2}$ cent that the price per pound of nonfat dry milk solids (carlots, spray and roller process, human consumption, f.o.b. manufacturing plants in the Chicago area) exceeds 5 cents. In the event plant prices are not available use Chicago market quotations and a "make allowance" of 6 cents.

- (d) The price for Class II milk.

Class I - "Basic formula" price plus \$1.25, subject to a "supply-demand" adjustment computed from a "current utilization percentage", i.e., the percentage which producer receipts are of Class I sales during the first and second preceding months. From this is subtracted the following base period utilization percentage.

<u>Delivery Period</u>	<u>Percent</u>	<u>Delivery Period</u>	<u>Percent</u>	<u>Delivery Period</u>	<u>Percent</u>
January	109	May	132	September	140
February	111	June	145	October	128
March	113	July	147	November	115
April	119	August	144	December	109

The resulting "net deviation" determines the specific price adjustment in accordance with a schedule, at the rate of 2 cents per one percent of deviation.

Class II - Average of prices paid or to be paid for 4 per cent milk delivered at the following plants:

Cudahy Packing Co.,	Lafayette, Tennessee
Carnation Co.,	Murfreesboro, Tennessee
Kraft Foods Co.,	Gallatin, Tennessee
Borden Co.,	Fayetteville, Tennessee
Swift and Co.,	Lobabon, Tennessee
Borden Co.,	Lewisburg, Tennessee
Kraft Foods Co.,	Pulaski, Tennessee
Lakeshire-Marty Cheese Co.,	Carthage, Tennessee
Swift and Co.,	Lawrenceburg, Tennessee
Wilson and Co.,	Murfreesboro, Tennessee

Producer-handlers:

Any person who produces milk, operates an approved plant and receives no milk from producers or from sources other than pool plants. Producer-handlers are exempt from the regulatory provisions of the order, but reports may be required by the market administrator.

Expense of Administration:

Handlers pay administrative costs not to exceed 2 cents per hundred-weight on milk received from approved dairy farmers.

Special Producer Provisions:

Deductions as authorized by members, are turned over to the cooperative associations. A marketing service charge not to exceed 3 cents is deducted for non-members. Statements are furnished to producers by handlers with each payment. The statements show the amounts of milk delivered, the payment rates, and the amount and reasons for any deductions.

Deduction of 40 cents per hundredweight is made from the uniform price during April, May, June, and July of each year. These funds are used for the purpose of making a special additional payment for milk delivered during the succeeding October, November, and December. The additional payments are computed by dividing the total fund by three (to provide payment for each of the three months) and each third is divided by the total deliveries of producer milk during each of the months of October, November, and December.

Special Handler Provisions:

Handlers are required to pay into the producer settlement fund the difference between the Class III price and the value, in accordance with its utilization, of "other source" milk used for Class I or Class II purposes. The payment with respect to "other source" milk is not required on "other source" milk which is used in Class I and Class II only to the extent that producer milk is not available.

If the Secretary determines that a handler disposes of a greater proportion of his Class I and Class II milk in another marketing area regulated by a Federal Order, the handler is subject to the other order. If the Class I and Class II prices under the other order are more than the prices under this order, the handler is required to pay the difference into the producer settlement fund.

Butterfat Differentials: (Continued)

Class II - Chicago 92-score butter times 0.115. Class II differential shall not exceed result obtained by dividing Class II milk price by 40.

Producer Price - Chicago 92-score butter times 0.12.

Producer-handler:

A person who is both a producer and a handler and who receives no milk from other producers is not subject to the regulatory provisions of the order but must make certain reports to the market administrator upon request by him.

Expense of Administration:

Handlers pay administrative costs not to exceed 4 cents per hundredweight on milk received from producers and on "other source" milk which is classified as Class I.

Special Producer Provisions:

Deductions as authorized by members are turned over to cooperative associations.

A marketing service charge not to exceed 5 cents per hundredweight is deducted for non-members.

Payments on account are made to producers for milk delivered during the first 15 days of each month at the Class II price for the preceding month. If a cooperative association of producers requests it, handlers are required to pay to the association on the 27th of the month payments otherwise payable to its members.

A base rating plan subject to rules set forth in the order applies April through June with bases determined by daily average deliveries during the preceding September through January (90 being the minimum number used to compute the daily average).

Special Handler Provisions:

Handlers who the Secretary determines dispose of a greater proportion of their milk in another federally regulated market are not subject to this order but such handlers may be required to make reports under this order.

If a handler, subject to another order, disposes of Class I milk under this order, he pays into the producer settlement fund the amount, if any, by which the value of such Class I milk is greater than the value of such Class I milk as computed pursuant to the other order.

FEDERAL MILK ORDER NO. 18

Memphis, Tennessee

Marketing Area:

Shelby County and city of Jackson, Tennessee; and city of West Memphis, Arkansas.

Handler:

- (1) Any person who operates a plant.
 - (a) from which Class I milk is disposed of in the marketing area.
 - (b) which ships milk received from qualified dairy farmers to a plant from which at least 5 percent of its milk is disposed of as Class I in the marketing area.
- (2) A cooperative association with respect to milk which it causes to be diverted from a fluid milk plant to a nonfluid milk plant.

Producer:

Any person except a producer-handler who produces milk under a Grade A inspection permit and which is

- (1) received at a fluid milk plant.
- (2) diverted from a fluid milk plant to a nonfluid milk plant.

Fluid milk plant means any plant

- (a) from which at least 5 percent of its milk is disposed of as Class I in the marketing area.
- (b) which ships milk received from qualified dairy farmers to (a) above.

Classification:

Class I - All skim milk and butterfat

- (1) Disposed of as fluid milk, skim milk, buttermilk, milk drinks (plain or flavored) cream (including sour cream) and any mixture in fluid form of skim milk and cream (except eggnog, ice cream mix, and milk or skim in livestock feed).
- (2) Contained in month-end Class I inventory.
- (3) Not accounted for as Class II.

The first part of the report is devoted to a description of the

method used in the investigation. It is a description of the

experimental apparatus and the method of observation.

The results of the investigation are given in the following

table. The first column gives the value of the

parameter α and the second column gives the value of the

parameter β . The third column gives the value of the

parameter γ . The fourth column gives the value of the

parameter δ .

The

value of the parameter α is given in the first column of the table. The value of the parameter β is given in the second column of the table. The value of the parameter γ is given in the third column of the table. The value of the parameter δ is given in the fourth column of the table.

The value of the parameter α is given in the first column of the table.

The value of the parameter β is given in the second column of the table.

Class II - All skim milk and butterfat.

- (1) Used to make any product not in Class I.
- (2) Disposed of and used for livestock feed.
- (3) In shrinkage of milk from producers and "other source milk" up to 2 percent.

Class Prices (4.0 percent butterfat):

"Basic Formula" Price - A "basic formula" price is used in determining the Class I price. The "basic formula" price is the highest of the following:

- (1) Prices paid for 3.5 percent milk at 15 Midwest condenseries (see Chicago order for list), plus Chicago 92-score butter price for the month times 0.6.
- (2) Price per pound of 92-score butter at Chicago times 4.8; plus price per pound of nonfat dry milk solids (carlots, spray and roller process, human consumption, f.o.b. Chicago area plants), minus 5 cents, then multiply by 7.5.
- (3) Average monthly price per pound Wisconsin primary market "Cheddars" f.o.b. Wisconsin assembly points, c.l. (including truck); plus Chicago 92-score butter times 0.902; subtract 34.3 cents; plus Chicago 92-score butter price times 0.6.

Class I Price - "Basic Formula" price for the preceding month plus \$1.28 (March through August) and \$1.68 for all other months.

A "utilization percentage", i.e., the percentage which producer receipts are of Class I sales, is computed for the second and third preceding months.

To the Class I price determined above, add, if the "utilization percentage" is less than, or subtract if it is more than a tabulated "base utilization range", an amount (the supply-demand adjustment) determined by multiplying such difference by the following rate in the month which applies:

<u>Pricing months</u>	<u>Rate (cents)</u>
January - March	3
April - June	1
July - August	3
September - December	4

Class II Price - The average price paid for 4.0 percent milk during the month at the following local manufacturing plants:

<u>Present Operator</u>	<u>Location</u>
Kraft Foods Company,	Corinth, Mississippi
Olive Branch Cheese Company,	Olive Branch, Mississippi
Borden Company,	Starkville, Mississippi
Carnation Company	Tupelo, Mississippi
Pet Milk Company,	Mayville, Kentucky
Pet Milk Company,	Kosciusko, Mississippi
Armour Creameries,	New Albany, Mississippi

Butterfat Differentials:

Class Prices -

Class I - Chicago 92-score butter for the preceding month times 0.12.

Class II - Chicago 92-score butter for current month times 0.11 for months of April through June, and by 0.115 for all other months.

Producer Price - Differentials vary with 92-score butter for the month as follows:

<u>Butter Price Range</u> (Cents)	<u>Butterfat Differential</u> (Cents)
42.50 - 47.499	5
47.50 - 52.499	5½
52.50 - 57.499	6
57.50 - 62.499	6½
62.50 - 67.499	7

(For each 5 cent increase in the butter price range the butterfat differential is increased 0.5 cent.)

Location Differentials:

Class I - Price subject to differential of 17 cents at plants 40-50 miles from Memphis City Hall, 18 cents at plants 50-60 miles, and one cent additional per 10 miles thereafter.

Class II - None.

Producer Price - Same differentials as for Class I.

Method of Accounting for Milk:

Weights of skim milk and butterfat are accounted for separately. Upon completion of classification the butterfat test of each class is determined.

Type_of Pool:

Individual handler pool with base rating. No new producer clause.

Milk diverted by a cooperative association from a handler's plant during March - August shares ratably in such handler's Class I utilization up to the same percentage of Class I as the association supplied the handler during the September - February period.

FEDERAL MILK ORDER NO. 25

Puget Sound, Washington

Marketing Area:

The major cities involved are Seattle and Tacoma, but the defined area comprises the entire territory consisting of the following counties: The western portions of Snohomish, King, Pierce, all of Thurston, and the southern portion of Grays Harbor (District 1); western portion of Whatcom (District 2); northeastern portion of Pacific and western portion of Lewis, excluding the town of Vader (District 3); and the western portion of Skagit (District 4).

Handler:

- (1) Person who operates a pool plant or a non-pool plant from which Class I milk is distributed in the marketing area.
- (2) A cooperative association which causes producer milk to be diverted from a pool plant to a non-pool plant.

Pool Plant:

Any plant approved by appropriate health authorities, other than that of a producer-handler, which is either:

- (1) A "fluid milk plant," i.e. a plant located within the marketing area and from which Class I milk is distributed in the marketing area.
- (2) A "country plant," i.e., a plant which is not a "fluid milk plant" but is located within the marketing area, or one located outside the marketing area from which shipments for Class I purposes exceed 50 percent during any month October through December, or 20 percent during any month January through September, except that the latter requirement does not apply if the percentage was over 50 for the entire period of the preceding October through December.

Producer:

Any person who produces, under a dairy farm permit or rating issued by an appropriate health authority, milk qualified for disposition to consumers in fluid form within the marketing area.

Classification:

Class I - Milk (including milk frozen) skim milk, butter-milk, flavored milk, flavored milk drinks, fluid cream (sweet or sour), fluid cream mixtures, concentrated milk, flavored milk and flavored milk drinks not sterilized, inventory variations, and unaccounted-for milk.

Class II - All milk other than Class I, livestock feed, yogurt, cottage cheese, eggnog, bulk sales to bakeries, soup companies, and candy manufacturers, shrinkage of producer milk up to three percent of volume in Class II products, and all shrinkage of "other source" milk.

Class Prices (4.0 percent butterfat):

"Basic formula" price - A "basic formula" price is used in determining the Class I price. It is the highest of the following for the preceding month:

- (1) Prices paid for 3.5 percent milk at 15 Midwest condenseries (see Chicago summary for list) adjusted to 4.0 percent butterfat.
- (2) Price per pound of Chicago 92-score butter times 6, plus 2.4 times the price per pound of "Cheddars" at Plymouth, Wisconsin, divide by 7, multiply by 1.3, and multiply by 4.
- (3) Price per pound of 93-score butter (if 93-score butter is not quoted for a day, use highest of prices for 92-score) times 4.8, plus 8.2 times price per pound of nonfat dry milk solids (spray and roller process, human consumption at manufacturing plants in the Chicago area), minus 67 cents.

Class I - "Basic formula" price plus \$1.65 provided that the price during April, May, and June shall not be higher than in March and that the price during October, November, December and January shall not be lower than in September.

Class II - The butter-powder formula (Item (3) of "basic formula"), except for a "make" allowance of 80 cents in lieu of 67 cents.

Butterfat Differentials:

Class I - Price per pound of 92-score butter at San Francisco divided by 10, times 1.2.

1. The first part of the report deals with the general situation of the country and the progress of the work during the year.

2. The second part of the report deals with the results of the work during the year and the progress of the work during the year.

3. The third part of the report deals with the results of the work during the year and the progress of the work during the year.

4. The fourth part of the report deals with the results of the work during the year and the progress of the work during the year.

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6. The sixth part of the report deals with the results of the work during the year and the progress of the work during the year.

7. The seventh part of the report deals with the results of the work during the year and the progress of the work during the year.

8. The eighth part of the report deals with the results of the work during the year and the progress of the work during the year.

9. The ninth part of the report deals with the results of the work during the year and the progress of the work during the year.

10. The tenth part of the report deals with the results of the work during the year and the progress of the work during the year.

11. The eleventh part of the report deals with the results of the work during the year and the progress of the work during the year.

Butterfat differentials (continued)

Class II - Price per pound of 92-score butter at San Francisco divided by 10, times 1.15.

Producer -

Base milk - The Class I differential times the percentage of butterfat in base milk allocated to Class I plus the Class II differential times the remaining percentage of butterfat in base milk.

Excess milk - Price per pound of 92-score butter at San Francisco times 1.15.

Location Differentials:

Class I - 45 cents per hundredweight credited on producer milk received at a plant in Clallam or Jefferson Counties, 30 cents at any plant located in District No. 2, 20 cents at any plant located in District No. 4; and 40 cents at any other plant located outside of District No. 1 and Kitsap and Mason Counties.

Class II - On plants located in District 1 or Kitsap and Mason Counties the handler will be charged 25 cents per hundredweight on the lesser of the following amounts:

- (1) All receipts utilized in Class II products other than evaporated milk in hermetically sealed cans, butter, nonfat dry milk solids, powdered whole milk, Cheddar cheese, and shrinkage allowed as Class II.
- (2) Producer receipts assigned to Class II at the plant.

Producer -

Base Milk - Deductions similar to Class I credits.

Excess Milk - 25 cents per hundredweight is added to the uniform price for excess milk received from producers at plants located in District No. 1 or in the counties of Kitsap and Mason.

Method of Accounting for Milk:

Weights of skim milk and butterfat are accounted for separately. Upon completion of classification the butterfat test of each class is determined.

1. The first step in the process of the investigation is the identification of the problem. This is done by the investigator, who is usually a member of the research team. The investigator will identify the problem by looking at the data and trying to find out what is going on.

Type of Pool:

Market-wide, monthly pool with base rating. No new producer clause.

Interhandler Transfers:

Skim milk and butterfat transferred from a pool plant is classified as Class I if transferred to a fluid milk plant and as Class II if transferred to a pool country plant, except that milk transferred from fluid or country plants to other fluid or country plants maintaining separate facilities for the handling of manufacturing-type, or "factory" milk is classified as Class II.

Outside Purchases:

Milk received by a handler from sources other than producers or other pool plants is deducted from his Class II utilization or producer milk.

On "other source" milk either assigned to Class I in the pool or otherwise disposed of for Class I purposes in the marketing area, the handler is required to pay into the pool an amount equal to the difference between the Class I and Class II prices.

Outside Sales:

Milk sold outside the marketing area is priced the same as milk sold in the marketing area. Skim milk or butterfat transferred or diverted to a nonpool plant is classified as Class I if the receiving plant is:

- (1) outside the marketing area, except an Class II classification applies when the receiving plant is in the marketing area or in any of the counties of Clallam, Jefferson, Grays Harbor, Kitsap, Island, and Mason and is not engaged in milk distribution.

Producer-Handler:

Handlers who distribute only milk of their own production are exempt from the regulatory provisions. Reports may be required by the market administrator.

Expense of Administration:

Handlers are assessed not to exceed 4 cents per hundredweight of milk received from producers, including the handler's own production, and on "other source" milk classified as Class I.

Special Producer Provisions:

A charge not to exceed 5 cents per hundredweight is paid by handlers to the market administrator to cover marketing services for producers who are not members of a cooperative association. The deduction is also paid by handlers on all milk received from members of a cooperative association which does not perform all of the specified marketing services. On milk received from members at a cooperative plant, a deduction as authorized by members is remitted to the association.

Bases are established on August through December deliveries and apply the following February through January. New or irregular producers established a base by applying an appropriate monthly percentage to their deliveries.

<u>Citation</u>	<u>Date Published</u>	<u>Action</u>
<u>ST. LOUIS - ORDER NO. 3</u>		
14 FR 4775	7/30/49	Order, as amended
15 FR 1827	3/31/50	Amendment No. 4
15 FR 9427	12/30/50	Amendment No. 5
16 FR 12170	12/1/51	Order, as amended
17 FR 7883	8/29/52	Amendment No. 6
18 FR 2573	5/2/53	Order suspending certain provisions
18 FR 3615	6/24/53	Order suspending certain provisions
18 FR 6863	10/31/53	Amendment No. 7
18 FR 7577	11/28/53	Amendment No. 8

BOSTON - ORDER NO. 4

16 FR 9929	9/29/51	Order, as amended
17 FR 2159	3/13/52	Termination of certain provisions
17 FR 2705	3/28/52	Amendment No. 12
17 FR 7768	8/26/52	Amendment No. 13
18 FR 7580	11/28/53	Suspension
19 FR 397	1/22/54	Determination of equivalent feed prices
19 FR 1701	3/30/54	Amendment No. 14

OKLAHOMA CITY - ORDER NO. 5

15 FR 1770	3/30/50	Order
16 FR 2782	3/30/51	Amendment No. 1
16 FR 11043	10/31/51	Amendment No. 2
16 FR 11049	10/31/51	Amendment No. 3
17 FR 2744	3/29/52	Amendment No. 4
17 FR 5796	6/28/52	Amendment No. 5
18 FR 8673	12/24/53	Order terminating specified terms
19 FR 1154	3/3/54	Order, as amended

CitationDate PublishedActionTULSA-MUSKOGEE - ORDER NO. 6

15 FR 1829	3/31/50	Order
16 FR 2784	3/30/51	Amendment No. 1
17 FR 7918	8/30/52	Amendment No. 2
18 FR 101	1/6/53	Amendment No. 3
18 FR 2532	5/1/53	Amendment No. 4
18 FR 4544	8/4/53	Order, as amended
18 FR 8673	12/24/53	Order terminating specified terms
19 FR 1739	3/31/54	Amendment No. 5

MILWAUKEE - ORDER NO. 7

15 FR 7173	10/26/50	Order
15 FR 9428	12/30/50	Amendment No. 1
16 FR 3691	5/1/51	Amendment No. 2
16 FR 6339	6/30/51	Amendment No. 3
16 FR 10922	10/27/51	Amendment No. 4
16 FR 12851	12/22/51	Order suspending certain provisions
17 FR 5796	6/28/52	Amendment No. 5
17 FR 7884	8/29/52	Amendment No. 6
18 FR 3087	5/29/53	Amendment No. 7
18 FR 8673	12/24/53	Order terminating specified terms
19 FR 1158	3/3/54	Amendment No. 8
19 FR 1815	4/2/54	Amendment No. 9

DUBUQUE - ORDER NO. 12

14 FR 3226	6/15/49	Order, as amended
17 FR 5540	6/20/52	Amendment No. 2

CitationDate PublishedActionKANSAS CITY - ORDER NO. 13

16 FR 67	1/4/51	Order, as amended
16 FR 11050	10/31/51	Amendment No. 3
17 FR 2745	3/29/52	Amendment No. 4
17 FR 3816	4/30/52	Amendment No. 5
18 FR 8671	12/24/53	Order terminating specified terms
18 FR 8721	12/29/53	Amendment No. 6
19 FR 2618	5/6/54	Order suspending certain provisions
19 FR 3351	6/8/54	Order suspending certain provisions

MEMPHIS - ORDER NO. 18

15 FR 6533	9/28/50	Order
18 FR 6865	10/31/53	Amendment No. 1
18 FR 8673	12/24/53	Order terminating specified terms
19 FR 2848	5/18/54	Order, as amended

SPRINGFIELD, MISSOURI - ORDER NO. 21

16 FR 1225	2/9/51	Order
16 FR 12176	12/4/51	Amendment No. 1
17 FR 7919	8/30/52	Amendment No. 2
18 FR 3060	5/28/53	Amendment No. 3
18 FR 4551	8/4/53	Amendment No. 4

DETROIT - ORDER NO. 24

16 FR 6341	6/30/51	Order
17 FR 1575	2/21/52	Amendment No. 1
17 FR 5634	6/24/52	Amendment No. 2
17 FR 9651	10/25/52	Amendment No. 3
18 FR 5202	9/1/53	Amendment No. 4
18 FR 8671	12/24/53	Order terminating specified terms
19 FR 1110	2/27/54	Amendment No. 5

<u>Citation</u>	<u>Date Published</u>	<u>Action</u>
<u>PUGET SOUND - ORDER NO. 25</u>		
16 FR 3631	4/28/51	Order
16 FR 8816	8/31/51	Amendment No. 1
17 FR 2708	3/28/52	Order suspending certain provisions
17 FR 3845	5/1/52	Amendment No. 2
17 FR 10847	12/2/52	Order, as amended
18 FR 6231	9/30/53	Amendment No. 3
18 FR 8819	12/30/53	Order suspending certain provisions
18 FR 8673	12/24/53	Order terminating specified terms
19 FR 571	2/3/54	Amendment No. 4
19 FR 2246	4/20/54	Amendment No. 5

NEW YORK - ORDER NO. 27

16 FR 12851	12/22/51	Order, as amended
17 FR 1743	2/28/52	Amendment No. 3
18 FR 8444	12/17/53	Amendment No. 4
18 FR 7581	12/28/53	Amendment No. 5
19 FR 556	2/2/54	Amendment No. 6
19 FR 2512	4/30/54	Amendment No. 7

NEOSHO VALLEY - ORDER NO. 28

16 FR 11051	10/31/51	Order
17 FR 7807	8/27/52	Amendment No. 1
18 FR 6866	10/31/53	Amendment No. 2
19 FR 1081	2/26/54	Amendment No. 3

TOLEDO - ORDER NO. 30

16 FR 6420	7/3/51	Order, as amended
16 FR 10049	10/3/51	Amendment No. 9
18 FR 870	2/13/53	Amendment No. 10
19 FR 7	1/1/54	Amendment No. 11

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<u>CEDAR RAPIDS-IOWA CITY--ORDER NO. 31</u>		
16 FR 7343	7/27/51	Order
17 FR 4843	5/28/52	Order suspending certain provisions
17 FR 9063	10/11/52	Amendment No. 1

<u>FORT WAYNE--ORDER NO. 32</u>		
15 FR 3307	5/30/50	Order, as amended
16 FR 11095	11/1/51	Amendment No. 3
17 FR 4911	5/30/52	Amendment No. 4
18 FR 1199	3/4/53	Amendment No. 5
19 FR 1703	3/30/53	Amendment No. 6

<u>MERRIMACK VALLEY--ORDER NO. 34</u>		
16 FR 9671	9/22/51	Order, as amended
17 FR 2708	3/28/52	Amendment No. 10
17 FR 7771	8/26/52	Amendment No. 11
18 FR 7583	11/28/53	Order suspending certain provisions
19 FR 1704	3/30/54	Amendment No. 12

<u>OMAHA-LINCOLN-COUNCIL BLUFFS--ORDER NO. 35</u>		
17 FR 7411	8/15/52	Order, as amended

<u>Citation</u>	<u>Date Published</u>	<u>Action</u>
<u>CHICAGO - ORDER NO. 41</u>		
16 FR 6348	6/30/51	Order, as amended
16 FR 9363	9/15/51	Order suspending certain provisions
17 FR 5807	6/28/52	Amendment No. 7
17 FR 7840	8/28/52	Amendment No. 8
18 FR 4884	8/15/53	Order suspending certain provisions
18 FR 5343	9/3/53	Amendment No. 9
18 FR 6767	10/27/53	Order suspending certain provisions
18 FR 8671	12/24/53	Order terminating specified terms
19 FR 1159	3/3/54	Amendment No. 10
19 FR 1816	4/2/54	Amendment No. 11
<u>NEW ORLEANS - ORDER NO. 42</u>		
17 FR 5752	6/27/52	Order, as amended
19 FR 1159	3/3/54	Amendment No. 4
<u>NORTH TEXAS - ORDER NO. 43</u>		
16 FR 8420	8/23/51	Order
17 FR 3817	4/30/52	Amendment No. 1
17 FR 4287	5/10/52	Order suspending certain provisions
17 FR 8651	9/30/52	Amendment No. 2
18 FR 4491	7/31/53	Amendment No. 3
19 FR 1205	3/4/54	Amendment No. 4
19 FR 1789	4/1/54	Amendment No. 5
<u>QUAD CITIES - ORDER NO. 44</u>		
13 FR 2285	4/28/48	Order, as amended
14 FR 2252	5/6/49	Amendment No. 3
16 FR 3276	4/14/51	Order suspending certain provisions
16 FR 12027	11/30/51	Amendment No. 4
17 FR 4843	5/28/52	Order suspending certain provisions

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CitationDate PublishedActionLOUISVILLE - ORDER NO. 46

16 FR 8612	8/24/51	Order, as amended
16 FR 10050	10/3/51	Amendment No. 5
17 FR 4843	5/28/52	Amendment No. 6
17 FR 7884	8/29/52	Amendment No. 7
18 FR 1743	3/28/53	Amendment No. 8
18 FR 5482	9/12/53	Amendment No. 9
19 FR 1160	3/3/54	Amendment No. 10

FALL RIVER - ORDER NO. 47

16 FR 10107	10/4/51	Order, as amended
17 FR 2709	3/28/52	Amendment No. 12
17 FR 7773	8/26/52	Amendment No. 13
18 FR 7584	11/28/53	Order suspending certain provisions
19 FR 1704	3/30/54	Amendment No. 14

SIOUX CITY - ORDER NO. 48

12 FR 2079	3/29/47	Order, as amended
13 FR 9490	12/31/48	Amendment No. 2

SAN ANTONIO - ORDER NO. 49

17 FR 3013	4/8/52	Order
17 FR 5934	7/2/52	Correction
17 FR 10902	12/3/52	Amendment No. 1
18 FR 1153	2/28/53	Order terminating certain provisions
18 FR 8820	12/30/53	Order suspending certain provisions
19 FR 286	1/16/54	Order, as amended
19 FR 575	2/3/54	Amendment No. 2
19 FR 1790	4/1/54	Amendment No. 3

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 49. *Chrysomelidae* (Coleoptera) 49
 50. *Curculionidae* (Coleoptera) 50

<u>Citation</u>	<u>Date Published</u>	<u>Action</u>
<u>DULUTH-SUPERIOR - ORDER NO. 54</u>		
16 FR 155	1/6/51	Order, as amended
16 FR 8103	8/16/51	Amendment No. 6
<u>SIOUX FALLS-MITCHELL - ORDER NO. 56</u>		
17 FR 6187	7/10/52	Order
<u>PHILADELPHIA - ORDER NO. 61</u>		
17 FR 5309	6/11/52	Order, as amended
18 FR 1153	2/28/53	Amendment No. 14
18 FR 8675	12/24/53	Amendment No. 15
18 FR 8673	12/24/53	Order terminating specified terms
19 FR 1081	2/26/54	Amendment No. 16
19 FR 1817	4/2/54	Amendment No. 17
<u>STARK COUNTY - ORDER NO. 63</u>		
17 FR 9922	11/4/52	Order
19 FR 132	1/8/54	Amendment No. 1
<u>CINCINNATI - ORDER NO. 65</u>		
15 FR 5983	9/6/50	Order, as amended
16 FR 2786	3/30/51	Amendment No. 10
16 FR 8816	8/31/51	Amendment No. 11
16 FR 10051	10/31/51	Amendment No. 12
17 FR 2159	3/13/52	Termination of certain provisions
18 FR 2076	4/14/53	Amendment No. 13
18 FR 8671	12/24/53	Order terminating specified terms
19 FR 1162	3/3/54	Amendment No. 14
19 FR 1749	3/31/54	Amendment No. 15

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CitationDate PublishedActionSOUTH BEND-LA PORTE - ORDER NO. 67

15 FR 1776	3/30/50	Order, as amended
15 FR 9432	12/30/50	Amendment No. 1
16 FR 6359	6/30/51	Amendment No. 2
17 FR 9929	11/4/52	Amendment No. 3
18 FR 8673	12/24/53	Order terminating specified terms
19 FR 1162	3/3/54	Amendment No. 4

WICHITA - ORDER NO. 68

16 FR 2786	3/30/51	Order, as amended
16 FR 8817	8/31/51	Amendment No. 4
17 FR 7	1/1/52	Amendment No. 5
18 FR 5711	9/25/53	Order suspending certain provisions
18 FR 6817	10/29/53	Order suspending certain provisions
19 FR 1032	2/24/54	Order suspending certain provisions
19 FR 1750	3/31/54	Amendment No. 6

DAYTON-SPRINGFIELD - ORDER NO. 71

16 FR 10052	10/3/51	Order, as amended
17 FR 2159	3/13/52	Termination of certain provisions
18 FR 2429	4/25/53	Amendment No. 6
18 FR 4494	7/31/53	Amendment No. 7

TRI-STATE - ORDER NO. 72

17 FR 2961	4/5/52	Order, as amended
18 FR 6933	11/3/53	Order, as amended
19 FR 398	1/22/54	Amendment No. 1
19 FR 1207	3/4/54	Amendment No. 2
19 FR 2513	4/30/54	Amendment No. 3

Table 1. Summary of data for the first group of experiments.

Experiment No.	Time (min)	Temperature (°C)	Pressure (atm)	Flow Rate (L/min)
1	10	25	1.0	0.5
2	20	25	1.0	0.5
3	30	25	1.0	0.5
4	40	25	1.0	0.5
5	50	25	1.0	0.5

Table 2. Summary of data for the second group of experiments.

Experiment No.	Time (min)	Temperature (°C)	Pressure (atm)	Flow Rate (L/min)
6	10	30	1.0	0.5
7	20	30	1.0	0.5
8	30	30	1.0	0.5
9	40	30	1.0	0.5
10	50	30	1.0	0.5

Table 3. Summary of data for the third group of experiments.

Experiment No.	Time (min)	Temperature (°C)	Pressure (atm)	Flow Rate (L/min)
11	10	35	1.0	0.5
12	20	35	1.0	0.5
13	30	35	1.0	0.5
14	40	35	1.0	0.5
15	50	35	1.0	0.5

Table 4. Summary of data for the fourth group of experiments.

Experiment No.	Time (min)	Temperature (°C)	Pressure (atm)	Flow Rate (L/min)
16	10	40	1.0	0.5
17	20	40	1.0	0.5
18	30	40	1.0	0.5
19	40	40	1.0	0.5
20	50	40	1.0	0.5

<u>Citation</u>	<u>Date Published</u>	<u>Action</u>
<u>MINNEAPOLIS-ST. PAUL - ORDER NO. 73</u>		
15 FR 5326	8/15/50	Order, as amended
16 FR 7583	8/3/51	Order suspending certain provisions
17 FR 7685	8/22/52	Amendment No. 1
18 FR 2617	5/6/53	Order suspending certain provisions
18 FR 3750	7/1/53	Order suspending certain provisions
18 FR 5203	9/1/53	Order suspending certain provisions
18 FR 6869	10/31/53	Order suspending certain provisions
<u>COLUMBUS - ORDER NO. 74</u>		
17 FR 2968	4/5/52	Order, as amended
17 FR 5810	6/28/52	Notice of correction
18 FR 8671	12/24/53	Order terminating specified terms
19 FR 1340	3/10/54	Amendment No. 7
<u>CLEVELAND - ORDER NO. 75</u>		
15 FR 5878	8/31/50	Order, as amended
16 FR 6362	6/30/51	Amendment No. 5
17 FR 9846	11/1/52	Amendment No. 6
18 FR 1825	4/2/53	Amendment No. 7
18 FR 3795	7/3/53	Amendment No. 8
18 FR 4589	8/5/53	Amendment No. 9
18 FR 8671	12/24/53	Order terminating specified terms
19 FR 1757	3/31/54	Amendment No. 10
<u>FORT SMITH - ORDER NO. 76</u>		
17 FR 6939	7/30/52	Order
17 FR 9771	10/30/52	Amendment No. 1
18 FR 1154	2/28/53	Amendment No. 2
18 FR 8671	12/24/53	Order terminating specified terms

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<u>Citation</u>	<u>Date Published</u>	<u>Action</u>
<u>PADUCAH - ORDER NO. 77</u>		
16 FR 8431	8/23/51	Order, as amended
18 FR 8671	12/24/53	Order terminating specified terms
<u>NASHVILLE - ORDER NO. 78</u>		
16 FR 12607	12/14/51	Order
17 FR 9803	10/31/52	Amendment No. 5
18 FR 8673	12/24/53	Order terminating specified terms
19 FR 3152	5/29/54	Amendment No. 6
<u>TOPEKA - ORDER NO. 80</u>		
17 FR 3869	5/2/52	Order, as amended
19 FR 2618	5/6/54	Order suspending certain provisions
19 FR 3352	6/8/54	Order suspending certain provisions
<u>CENTRAL WEST TEXAS - ORDER NO. 82</u>		
17 FR 9654	10/25/52	Order
18 FR 2211	4/18/53	Amendment No. 1
18 FR 6870	10/31/53	Amendment No. 2
19 FR 576	2/3/54	Amendment No. 3
<u>MUSKEGON - ORDER NO. 85</u>		
18 FR 4787	8/13/53	Order

Date	Description	Amount
1950-1-1	To Balance	100.00
1950-1-15	By Cash	50.00
1950-1-20	To Cash	25.00
1950-1-25	By Cash	75.00
1950-2-1	To Cash	100.00
1950-2-15	By Cash	50.00
1950-2-20	To Cash	25.00
1950-2-25	By Cash	75.00
1950-3-1	To Cash	100.00
1950-3-15	By Cash	50.00
1950-3-20	To Cash	25.00
1950-3-25	By Cash	75.00
1950-4-1	To Cash	100.00
1950-4-15	By Cash	50.00
1950-4-20	To Cash	25.00
1950-4-25	By Cash	75.00
1950-5-1	To Cash	100.00
1950-5-15	By Cash	50.00
1950-5-20	To Cash	25.00
1950-5-25	By Cash	75.00
1950-6-1	To Cash	100.00
1950-6-15	By Cash	50.00
1950-6-20	To Cash	25.00
1950-6-25	By Cash	75.00

CitationDate PublishedActionKNOXVILLE - ORDER NO. 88

16 FR 7447	7/31/51	Order, as amended
16 FR 10930	10/27/51	Amendment No. 4
18 FR 1468	3/14/53	Amendment No. 5
18 FR 2533	5/1/53	Amendment No. 6
18 FR 8671	12/24/53	Order terminating specified terms
19 FR 2653	5/8/54	Amendment No. 7

ROCKFORD-FREEPORT - ORDER NO. 91

14 FR 4782	7/30/49	Order
15 FR 4185	6/30/50	Amendment No. 1
15 FR 9433	12/30/50	Amendment No. 2
16 FR 6363	6/30/51	Amendment No. 3
18 FR 8673	12/24/53	Order terminating specified terms

LIMA - ORDER NO. 95

14 FR 3515	6/29/49	Order
17 FR 11083	12/6/52	Amendment No. 1
18 FR 8673	12/24/53	Order terminating specified terms

SPRINGFIELD, MASS. - ORDER NO. 96

16 FR 9941	9/29/51	Order, as amended
17 FR 2710	3/28/52	Amendment No. 2
17 FR 7775	8/26/52	Amendment No. 3
18 FR 7585	11/28/53	Order suspending certain provisions
19 FR 1706	3/30/54	Amendment No. 4

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CitationDate PublishedActionWORCESTER - ORDER NO. 99

16 FR 9949

9/29/51

Order, as amended

17 FR 2711

3/28/52

Amendment No. 2

17 FR 7777

8/26/52

Amendment No. 3

18 FR 7585

11/28/53

Order suspending

certain provisions

19 FR 1706

3/30/54

Amendment No. 4

(2)

1. The first step is to identify the problem.
 2. The second step is to analyze the problem.
 3. The third step is to develop a solution.
 4. The fourth step is to implement the solution.
 5. The fifth step is to evaluate the solution.

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